

Simplifying Expressions Practice

Name _____

Date _____ Block _____

* Do work on a separate sheet and staple to this!

Simplify.

1. $(6x^2 - 3x + 2) - (4x^2 + x - 3)$

2. $(7y^2 + 12xy - 5x^2) + (6xy - 4y^2 - 3x^2)$

3. $(-4m^2 - 6m) - (6m + 4m^2)$

4. $27x^2 - 5y^2 + 12y^2 - 14x^2$

5. $\frac{a}{5} + \frac{2a}{5}$

6. $\frac{x}{4} + \frac{x}{2}$

7. $\frac{x+1}{3} + \frac{x}{4}$

8. $\frac{x-3}{5} + \frac{x+1}{2}$

9. $\frac{h+3}{7} + \frac{h-1}{2}$

10. $\frac{f-5}{4} + \frac{5f}{6}$

11. $2x(3x^2 - 5)$

12. $7a(6 - 2a - a^2)$

13. $-5y^2(y^2 + 2y - 3)$

14. $(x - 2)(x + 7)$

15. $(5 - 4x)(3 - 2x)$

16. $(2x - 1)(3x + 5)$

17. $3(4c - 2d) - 5(c + 3d)$

18. $8(-\frac{1}{2}a + 3b) + 2a$

19. $\frac{1}{4}(12f + 4g) - \frac{1}{3}(15f - 9g)$

20. $(y - 8)^2$

21. $(g + 5) + (2g + 7)$

22. $(5d + 5) - (d + 1)$

23. $2q(3pq + 4q^4)$

24. $-9xy + 11x^2 - 14y^2 - (6y^2 - 5xy - 3x^2)$

25. $(4r^2 - 6r + 2) - (-r^2 + 3r + 5)$

What Can You Say About a Monster with Five Legs?

Simplify the expression. Write the letter of the exercise in the box that contains the number of the answer.



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|---|-------------------------------|---|-------------------------------|
| E $7x + 6 + 2x + 5$ | 6 $10x$ | I $6a^2 + 11a + 3a^2$ | 8 $3a^2 + 10a + 9$ |
| L $5x + 5y + x + 8y$ | 3 $15x + 5y + 11$ | T $2a^2 + 5a + a^2 + 5a + 9$ | 17 $9a^2 + 4a + 13b$ |
| S $3x + 4y + 10 + 12x + y + 1$ | 10 $15x + 3y + 12$ | A $4a^2 + 7b^2 + 3a^2 + 18$ | 2 $9a^2 + 11a$ |
| O $8x + 30y + 75x + 16y + 4x$ | 22 $9x + 11$ | L $3a^2 + 8ab + b^2 + 6a^2 + 7b^2$ | 14 $7a^2 + 4b^2 + 18$ |
| A $\frac{1}{3}x + \frac{2}{3}x + 9x$ | 20 $\frac{11}{2}x + 4$ | H $5(a^2 + 4) + 2(a^2 + b^2)$ | 19 $9a^2 + 8ab + 8b^2$ |
| I $x + \frac{1}{2}x + 4 + 4x$ | 28 $87x + 46y$ | M $9(a^2 + b) + 4(a + b)$ | 23 $9a^2 + 3a + 11b$ |
| | 12 $6x + 13y$ | | 24 $7a^2 + 7b^2 + 18$ |
| | 18 $\frac{15}{2}x + 4$ | | 1 $7a^2 + 2b^2 + 20$ |

1-8

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|--------------------------------------|-----------------------|---|-------------------------------|
| T $5(n + 2) + 8n + 1$ | 16 $11n + 104$ | P $2(5t + 8) + 9(2t + 1)$ | 23 $7t^2 + 8tw + 2w^2$ |
| S $n + 4(n + 9) + 20$ | 4 $9n + 46$ | K $1 + 7(4 + 3t) + 5(12 + t)$ | 11 $44t^2 + 52t + 32$ |
| G $7 + 2(3 + n) + 11n$ | 9 $5n + 56$ | V $4(6t + 5) + 9t + 3(4t + 7)$ | 21 $26t + 89$ |
| I $3(n + 8) + 8(n + 10)$ | 15 $26n + 46$ | N $t(t + 8) + 5(t^2 + 6)$ | 27 $7t^2 + 9tw + w^2$ |
| E $9 + 2(15 + n) + 7(n + 5)$ | 26 $13n + 13$ | F $6(6t^2 + 7t) + 2(5t + 16) + 8t^2$ | 10 $44t^2 + 8t + 30$ |
| H $16(n + 1) + 4n + 6(5 + n)$ | 25 $26n + 104$ | L $3t^2 + t(4t + w) + 8tw + w^2$ | 29 $45t + 41$ |
| | 13 $13n + 11$ | | 5 $28t + 25$ |
| | 30 $9n + 74$ | | 7 $6t^2 + 8t + 30$ |



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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